To the tune of "To Anacreon in Heaven"

A A♭A B E
Oh, say, PGP, and RSA public key
A A2 A E A B E
Cryptosystems are simple, with primes q and p;
A A2 A B E
Call the product of one less than each of them k
A A2 A E A
I pick d and e, whose product is 1 mod k.

A A4 A A4 A E A E7
Now I just publish d, and the product qp,
A A2 A E7 A B E
You raise d to the power of message block b;
A E A EA DEA E
Take that modulo pq and send it to me.
A E A D A E A D E7 A
And I'll use it as the exponent of private key e.

Now this program can fit into three lines of code,
Using `perl` and `dc`, though the logic's distorted.
Cryptographic machines are a weapon of war,
And the government says they must not be exported.

Make a barcoded card, or if you are a bard
run the code through a modem, it's not very hard.

Now, if I were being mean I'd stick some modem tones in here

Then this song would be a munition, its music you could never take
From the land of the free, and the home of the brave.

The description of the RSA public key crpytography algorithm is mathematically accurate; though it's worth noting that any practical implementation will do the exponentiation and modules in a single operation. Perhaps the only obscure point occurs when specifying that $de \equiv 1 \bmod (p-1)(q-1)$. The twisted phraseology that defines k as $(p-1)(q-1)$ is particularly kludgy, but what the hell, it scans.